

Summary

Surface Acoustic Wave Transducer

5 The invention relates to a transducer operating with surface waves that shows an improved frequency response of the group delay vs. the SAW-transducer familiar until now with its high flank steepness of the transfer function. The transducer is constructed on the basis of SPUDT-cells, whereby in constructing the transducer at least two cells are anticipated which are identically constructed up to their scaling. They are thereby
10 differently scaled in longitudinal direction. According to the degree of scaling, the local phase of the acoustic wave lets itself be influenced so that the waviness in the frequency description of the group delay in the pass band of the filter, in which the transducer according to the invention is used, amounts to at most 50 ns.

15 Figure 1